

## USPTO PATENT FULL-TEXT AND IMAGE DATABASE

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**Results of Search in 1976 to present db for:**












**CCL/414/23:** 70 patents.




























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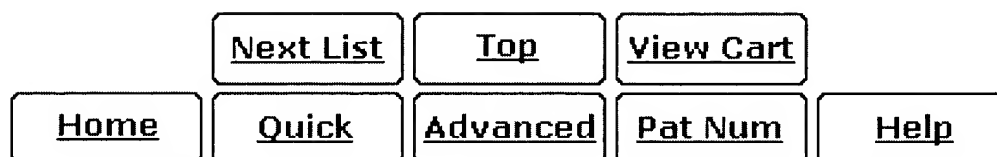
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PAT. NO.	Title
1 <a href="#">6,648,570</a>	 <a href="#">Lifting and installing streetlight poles</a>
2 <a href="#">6,641,347</a>	 <a href="#">Pole extractor</a>
3 <a href="#">6,592,316</a>	 <a href="#">Automatic pole guide transfer mechanism</a>
4 <a href="#">6,575,184</a>	 <a href="#">Method and apparatus for single handed erection of large tents</a>
5 <a href="#">6,494,515</a>	 <a href="#">Pole handler attachment</a>
6 <a href="#">6,405,770</a>	 <a href="#">Modular delimber</a>
7 <a href="#">6,267,544</a>	 <a href="#">Log positioning and securing device</a>
8 <a href="#">6,257,818</a>	 <a href="#">Tree transport machine and method of transporting felled trees</a>
9 <a href="#">6,062,793</a>	 <a href="#">Apparatus for retracting and extending a boom</a>
10 <a href="#">6,010,294</a>	 <a href="#">Tractor hydraulic grabbing tool</a>
11 <a href="#">5,979,340</a>	 <a href="#">Pole inserting robotic mechanism for accessing the interior of a harsh enclosure</a>

- 12 5,927,925  Pole setting guide
- 13 5,924,832  Hoisting apparatus for a tent pole
- 14 5,899,651  Column counterbalancing apparatus
- 15 5,876,174  Apparatus for transporting elongated loads
- 16 5,803,694  Portable tree platform elevated via a winch
- 17 5,788,450  Narrow self-propelled transportation apparatus
- 18 5,769,586  Self-loading log transporter
- 19 5,715,614  Transplant apparatus
- 20 5,634,759  Raising and lowering columns
- 21 5,516,250  Tree felling attachment apparatus for tractors
- 22 5,496,143  Tree and shrub lifting system
- 23 5,476,352  Transporting and setting utility poles in inaccessible locations
- 24 5,459,952  Apparatus for digging and transplanting trees
- 25 5,450,912  Maintenance and extraction of poles
- 26 5,377,730  Apparatus to stabilize a cut tree in the vertical position during movement by a feller-buncher
- 27 5,281,067  Pole installation guide
- 28 5,174,701  Pole trailer safety latch
- 29 5,158,418  Method and apparatus for transplanting large trees
- 30 5,141,387  Apparatus for handling drums
- 31 5,081,941  Apparatus for excavating and transplanting trees and the like
- 32 5,073,080  Grapple device for auger sections
- 33 5,009,558  Tree lifter
- 34 4,929,145  Forklift adapter for stocking vertical racks
- 35 4,796,941  Tree transport trailer
- 36 4,775,276  Loader attachment for handling and transporting utility poles and cylindrical articles
- 37 4,763,742  Tree feller-buncher
- 38 4,718,816  Load handling attachment for vehicles
- 39 4,709,955  Device for transporting trees and the like
- 40 4,648,778  Log lifter
- 41 4,639,186  Forwarder
- 42 4,626,166  Method for the placement of a trailer-mounted sand hopper

- 43 [4,615,656](#)  [Cylinder gripping attachment for a fork lift truck](#)
- 44 [4,604,017](#)  [Tree transporter](#)
- 45 [4,373,853](#)  [Log handling machine](#)
- 46 [4,362,451](#)  [Pole-setting apparatus](#)
- 47 [4,355,476](#)  [Bucket assembly](#)
- 48 [4,340,333](#)  [Concrete pipe handling apparatus](#)
- 49 [4,304,394](#)  [Log lifting device](#)
- 50 [4,280,785](#)  [Multi-directional lifting and handling attachment for a crane boom](#)
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**CCL/414/23: 70 patents.**









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PAT. NO.	Title
51 <a href="#">4,262,812</a>	 <a href="#">Tool apparatus for sprinkler systems</a>
52 <a href="#">4,239,188</a>	 <a href="#">Tree handling device</a>
53 <a href="#">4,216,940</a>	 <a href="#">Directional tree falling aid and method of applying same</a>
54 <a href="#">4,212,577</a>	 <a href="#">Grapple</a>
55 <a href="#">4,150,503</a>	 <a href="#">Apparatus for excavation and earth removal from aquatic bottoms</a>
56 <a href="#">4,140,233</a>	 <a href="#">Load skidding vehicle with weight transferring grapple</a>
57 <a href="#">4,126,235</a>	 <a href="#">Tree harvester control linkage</a>
58 <a href="#">4,114,766</a>	 <a href="#">Tree caddy</a>
59 <a href="#">4,108,224</a>	 <a href="#">Tree shear tilting mechanism</a>
60 <a href="#">4,077,525</a>	 <a href="#">Derrick mounted apparatus for the manipulation of pipe</a>
61 <a href="#">4,069,846</a>	 <a href="#">Device for extracting tree stumps</a>
62 <a href="#">4,067,369</a>	 <a href="#">Whole tree extraction device</a>

- 63 [4,061,233](#)  [Drilling rigs](#)
  - 64 [4,057,138](#)  [Apparatus for routing logs](#)
  - 65 [4,056,134](#)  [Clamp assembly](#)
  - 66 [4,023,603](#)  [Tree top ejector](#)
  - 67 [3,974,925](#)  [Loader and tree remover](#)
  - 68 [3,972,358](#)  [Apparatus for delimbing trees](#)
  - 69 [3,937,340](#)  [Aerial platform having boom mounted pipe holder](#)
  - 70 [3,933,261](#)  [Construction equipment](#)
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